

SUBTRACT

Syntax 1

SUBTRACT [ROUNDED] operand1 ...FROM operand2

Operand	Possible Structure				Possible Formats				Referencing Permitted	Dynamic Definition		
	C	S	A	N	N	P	I	F	D	T		
Operand1	C	S	A	N	N	P	I	F	D	T	yes	no
Operand2		S	A	M	N	P	I	F	D	T	yes	no

Syntax 2

SUBTRACT [ROUNDED] operand1 ...FROM operand2 GIVING operand3

Operand	Possible Structure				Possible Formats				Referencing Permitted	Dynamic Definition			
	C	S	A	N	N	P	I	F	D	T			
Operand1	C	S	A	N	N	P	I	F	D	T	yes	no	
Operand2	C	S	A	N	N	P	I	F	D	T	yes	no	
Operand3		S	A	M	A	N	P	I	B	D	T	yes	yes

Related Statement: COMPUTE

Function

The SUBTRACT statement is used to subtract the values of two or more operands.

Operands

As for the formats of the operands, see also the section Performance Considerations for Mixed Formats in the Natural Reference documentation.

If a database field is used as the result field, the SUBTRACT operation only results in an update to the internal value that is used within the program. The value for the field in the database remains unchanged.

Result Field

If the GIVING clause is used, *operand2* will not be modified and the result will be stored in *operand3*. If the GIVING clause is not used, the result will be stored in *operand2*.

ROUNDED

If you specify the keyword ROUNDED, the result will be rounded. See the section Rules for Arithmetic Assignment in the Natural Reference documentation for information on rounding.

Example

```
/* EXAMPLE 'SUBEX1': SUBTRACT
*****
DEFINE DATA LOCAL
  1 #A (P2) INIT <50>
  1 #B (P2)
  1 #C (P1.1) INIT <2.4>
END-DEFINE
*****
SUBTRACT 6 FROM #A
WRITE NOTITLE 'SUBTRACT 6 FROM #A'          ' 10X '=' #A
*****
SUBTRACT 6 FROM 11 GIVING #A
WRITE      'SUBTRACT 6 FROM 11 GIVING #A'    ' 10X '=' #A
*****
SUBTRACT 3 4 FROM #A GIVING #B
WRITE      'SUBTRACT 3 4 FROM #A GIVING #B'  ' 10X '=' #A '=' #B
*****
SUBTRACT -3 -4 FROM #A GIVING #B
WRITE      'SUBTRACT -3 -4 FROM #A GIVING #B' ' 10X '=' #A '=' #B
*****
SUBTRACT ROUNDED 2.06 FROM #C
WRITE      'SUBTRACT ROUNDED 2.06 FROM #C'   ' 10X '=' #C
*****
END
```

SUBTRACT 6 FROM #A	#A: 44
SUBTRACT 6 FROM 11 GIVING #A	#A: 5
SUBTRACT 3 4 FROM #A GIVING #B	#A: 5 #B: -2
SUBTRACT -3 -4 FROM #A GIVING #B	#A: 5 #B: 12
SUBTRACT ROUNDED 2.06 FROM #C	#C: 0.3